

## ABSTRACT

[056] A location tracking system for tracking the location of items within a controlled area comprises a plurality of RFID tags located according to the required accuracy of the location determinations. Vehicles configured to transport items being tracked include two RFID interrogators configured to acquire RFID information from the plurality of RFID tags and to transmit the RFID tag information to a location authority. The separation the two RFID interrogators is set based on the spacing of the plurality of RFID tags such that the required accuracy results. The location authority can then simply map the RFID tag information to coordinate information stored for each of the plurality of tags to obtain the location of the vehicle and, therefore, the item being transported.